

KESSLER, A.; MARIANI, E.; PAULINY-TOTHOVA, V.

The diffusion coefficient of zinc in NaCl crystals. Chekhosl  
fiz zhurnal 14 no.1:34-43 '64.

1. Institute of Physics, Slovak Academy of Sciences,  
Bratislava.

KESSLER, Arnost, RNDr. CSc.

Thermal resistances in multidimensional heat flow in electric  
machines. El tech cas 15 no. 4:205-212 '64.

1. Institute of Physics, Slovak Academy of Sciences, Bratislava,  
Dubravská cesta.

KESSLER, Arnost; MARIANI, Emil

On the electric conductivity and dielectric loss of "pure"  
artificially grown and natural NaCl crystals. Mat fyz cas  
SAV 14 no.4:317-323 '64.

1. Institute of Physics of the Slovak Academy of Sciences,  
Bratislava, Dubravská cesta.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9

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CIA-RDP86-00513R000721610014-9"

KESSLER, F.M.

Czechoslovakia/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60869

Author: Kessler, F. M., Vecerikova, V.

Institution: None

Title: Roentgenographic Study of the Process of Thermal Processing of Petroleum Coke

Original  
Periodical: Studium kalcinace smolneho a petrolejoveho koksu pomocí X-pánsku, Paliva, 1954, 34, No 6, 154-162; Czech

Abstract: Performed were roentgenographic investigations, chemical elemental and technical analyses, and measurements of electric resistance of 2 samples of coke from pitch (I and II), petroleum coke (III) and semicoke from pitch (IV) before and after thermal processing at 1,300°-1,380° in retorts of Glover-West type. X-ray diffraction patterns were obtained by the powder method with Cu-K $\alpha$  radiation. For determination of radii of diffused interference lines of the patterns use was made of previously

Card 1/2

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Czechoslovakia/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60869

Abstract: described procedure (Referat Zhur - Khimiya, 1955, 8209). Structure of all samples of coke is 2-dimensional: graphite planes are irregularly oriented. Powder patterns of samples differ in intensity and width of lines. Thermal processing results in decreased diffusion of lines, especially line (004). From width of lines of powder patterns it was determined that dimensions of coke granules are increased after processing. Authors consider an index of calcined coke a content H ~ 0.15% regardless of the initial content (~0.3-0.5% for I and II, and 4% for III). With decrease in H content after thermal processing the electric resistance drops considerably. The authors consider that in the technological calcination process it is appropriate to utilize specimens of coke the production temperature of which did not exceed 700° so that the H-content be of not less than 0.5%. There was noted a correlation between granule dimensions of initial and calcined samples and their contents of water, volatiles and ash.

Card 2/2

KESSLER, F.; VECERIKOVA, V.

"Study of Graphitization of Resin and Petroleum Coke by Means of X Rays",  
P. 188, (PALIVA, Vol. 34, No. 7, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,  
Dec. 1954, Uncl.

KESSELER, F.M.

3699. MEASUREMENT OF PARTICLE SIZE BELOW 0.06 MM. I.  
MICROSCOPIC METHODS. Vsevilkova, V., Stepanka, F. and Kessler, F.M.  
Proc. Int. Crys. Conf. 4th Int. Microsc. Soc. 1954, Part 1, p. 155.  
The following method is based on the principle of the optical microscope. The sample is placed on a glass slide and covered with a cover slip. The size of the particles is determined by the number of points of intersection of the particle boundaries with a horizontal line drawn across the field of view. The number of intersections is divided by the number of points of intersection of the horizontal line with the boundaries of the field of view. This ratio is multiplied by 100 to give the percentage of particles smaller than 0.06 mm. The method is suitable for practical requirements, but it is not quantitative. After some time the gravity is eliminated, the micrograph is taken and the photometric curves is not recommended.

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KESSLER, F.M.

✓ Polarographic determination of molybdenum in ores. E.  
M. Kessler. *Prace Ceskeho Vysokého u Vysoké Policie*,  
Publ. No. 1-9, 140-631055 (English summary).—A CH  
polarographic method was worked out which serves for Mo  
ores contg. molybdenite (I), for concentrates and for any  
ores which contain only traces of Mo. The samples are dis-  
solved in HNO<sub>3</sub>, then repeatedly brought to dryness with  
HCl to remove SiO<sub>2</sub>, then treated with NH<sub>4</sub>OH to remove  
Fe(OH)<sub>3</sub> and Al(OH)<sub>3</sub>. The soln. is then brought to pH  
5.0 with 14N AcOH, and the polarogram is obtained after  
removing all O<sub>2</sub> under N<sub>2</sub> protection, in the presence of  
ethylenediaminetetraacetic acid, AcOEt, and AcONH<sub>4</sub> at pH  
about 4.0. The method can also be used to det. Bi and Cu  
side by side. Werner Jacobson

PM

Kesler J. III

5

Measurement of particle size below 0.06 mm. I. Microscopic methods. V. VEGRUKOVÁ, F. SIATEK, AND F. M. KESLER. *Proc. Ussr. Fizikal. Promst. Polite.* 1953, No. 5, pp. 101-16; abstracted in *J. Appl. Chem. (London)*, 6 [1]: 155 (1958). Experiments were made to assess the relative merits of the following methods for measuring the particle size of coal and inorganic dusts: (1) enlarging photomicrographs to 24 x 30 cm and measuring the particles with a paper stencil, (2) measuring the blackening of a photographic plate with a recording photometer; and (3) measuring the particle size on the screen of a projecting microscope. Methods 1 and 3 were equally suitable for practical requirements, but method 3 is cheaper and quicker because it involves no photographic work. It is recommended for the rapid and precise determination of particle sizes <0.06 mm.

V.R.E.

Perfected

KESSLER, F. M.

Basic research in the field of solid fuels in the USSR. p. 154.  
(PALIVA, vol. 35, no. 5, May 1955, Praha)

SO: Monthly List of East European Accession,(EEAL), LC, Vol. 4,  
No. 11, Nov. 1955, Unclassified.

Keep it secret

821. DETERMINATION OF MANGANESE IN COAL ASHES. Kassler, F.M. and  
Dekalaw, L. (Fuels (Fuel), 1955, vol. 15, 178-181) <sup>other, in Czech.</sup>  
Abstr., 1955, vol. 50, 3732. The spectrophotometric determination of manganese  
does not furnish satisfactory results. For this reason a polarographic method  
was devised which detects manganese in concentration  $10^{-4}$  to  $10^{-5}$  manganese  
manganato oxide in alkaline medium of triethanolamine (TEA) at half-wave potential  
of -1.69 V. Magnesium interferes owing to changing the height of wave. (L).  
C.A. <sup>2</sup>

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KESSLER, F M

✓ Direct oxygen determination in coal. II. Ronováčková  
and F. M. Kessler. *Falma* 35, 351-4 (1955).—A method of  
direct O determin., app., and calc., are given. The app. con-  
sists of a N-purification train with pure Cu heated to 500°<sup>(1)</sup>  
and an O to CO-conversion train with acetylene root  
heated to 1125° in Si tube and absorber with Mg chalcite.  
The O is converted according to  $I_2O_4 + 5 CO = 5 CO_2 + I_2$   
and the formed  $CO_2$  is gravimetrically detd. J. L.

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KESSLER, F. M.

KESSLER, F. New products of the Zeiss Works in Jena. p. 385

Vol. 36, no. 11, Nov. 1956

PALIVA

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, No. 2, 1957

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"APPROVED FOR RELEASE: 09/17/2001

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1970.

POLAROGRAPHIC DETERMINATION OF MAGNESIUM IN THE BONE. Fossler.

APPROVED FOR RELEASE: 09/17/2001

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"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9

A study of the titanium determination

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KESSLER, F.

An international conference on coal research in Holland.

P. 238, (Paliva) Vol. 37, no. 7, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

rabot, 1957, 22, No 4, 1097-1105.

Abstract: A new method of determination of graphite lattice parameters, in which the asymmetrical position of the photofilm and a radiation source of great wavelength ( $\lambda$  of Cr) are used, is described. It is pointed out that the method of inverse reflection has not justified itself at the study of graphites. The accuracy of the determination of interplanar distances by the proposed method is  $\pm 0.003$  A. This

Card : 1/2

-6-

Card : 2/2

-7-

KESTÍK, Č.

"Present state of coal research."

PALIVA, Praha, Czechoslovakia, Vol. 39, No. 5, May 1959.

Monthly List of East European Acquisitions (EAI), LC, Vol. 8, No. 2, September 1959.

Unclassified.

DOCKALOVA, I.; KESSLER, F.M.

Examination of volatile matter in coke by thermogravimetric analysis.  
Paliva 42 no.12:368-371 D '62.

I. Hennicky ustan, Ceskoslovenska akademie ved.

KESSLER, Ferdinand, inz., CSc.; VECERIKOVA, V., inz.

Examination of the possibility of determining crystallic SiO<sub>2</sub>  
in ore and coal dust by infrared spectroscopy. Rudy 11 no.8:  
274-279 Ag '63.

1. Hornicky ustav, Ceskoslovenska akademie ved, Praha.

KE3SLER, F.

American Conference on Coal Research. Uhli 7 no.3,108-110  
'65.

1. Institute of Mining of the Czechoslovak Academy of Sciences,  
Prague.

KESCHER, G.

Iterative calculation of girders on elastic supports.

p. 399 (Industria Constructiilor Si A Materialelor De Constructii. Vol. (7) no. 7,  
1956. Bucuresti, Rumania)

Monthly Index of East European Accessions (MEAI) IC. Vol. 7, no. 2,  
February 1958

Kessler, H.

GEOGRAPHY & GEOLOGY

Budapest. Vizgazdalkodasi Tudomanyos Kutato Intezet. BESZAMOLÓ. Budapest.  
1954

Detailed study of the sources of the Aggtelek Karst area. p. 134.

Monthly List of East European Accessions (EMAI). LC, Vol. 8, No. 2,  
February 1959, Unclass.

Hester, H.

HUNG.

3) Calculation of the percentage of determinative rainfall which gives the maximum conservation yield in each region. The following table gives the results for the 1933 hydrology.

From the values given in the table, it is evident that the quantity of rainfall which gives the maximum conservation yield in each region is the equilibrium rainfall of the region. In the Mearns, Magaliesberg and Drakensberg regions, the equilibrium rainfall is approximately 1000 mm per annum. In the Orange Free State, the equilibrium rainfall is approximately 600 mm per annum. In the Cape Province, the equilibrium rainfall is approximately 400 mm per annum. The following table gives the derivative rainfall of the last four regions on the basis of which the above mentioned figure is obtained, which allows the reading of the percentage of determinative rainfall pertaining to the percentage of determinative rainfall which gives the maximum conservation yield in each region.

KESSLER, H.

New data on the infiltration curve. p. 158. HIDROLÓGIAI KOZIONY.  
HYDROLOGICAL JOURNAL. (Magyar Hidrológiai Társaság) Budapest.  
Vol. 35, no. 5/6 May/June 1955.

Source: East European Accessions List (EEAL), Vol. 5, No. 2,  
February 1956

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CIA-RDP86-00513R000721610014-9

MASTER R. H.

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CIA-RDP86-00513R000721610014-9

TANAY, Jeno; PAPP, Ferenc, dr., prof.; PAPP, Szilard, dr., prof.;  
SCHMIDT, Eligius Robert, dr., prof.; KESSLER, Hubert, dr.,  
mernok.

Karstic water exploration near Veszprem. Hidrologiai kozlony  
38 no.3:175-181 Je'58.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9"

PAPP, Ferenc, dr.; BOZSONY, Denes; VAGAS, Istvan; OROSZLANY, Istvan;  
SCHULHOF, Odon, dr.; SZIGYARTO, Zoltan; HETENYI, Endre; HOLENYI,  
Laszlo; GABRI, Mihaly; HOLLO, Istvan; KESSLER, Hubert, dr.;  
WISNOVSZKY, Ivan; FINALY, Lajos; RATKY, Istvan; SZALAY, Miklos;  
IHRIG, Denes; KIRALY, Lajos; KERTAI, Ede

Report on the 1959 general meeting arranged by the Hungarian  
Hydrological Society. Hidrologiai kozlony 40 no.4:345-348 Ag  
'60.

1. Magyar Hidrologiai Tarsasag elnöke (for Papp). 2. Magyar  
Hidrologiai Tarsaság fotitkara (for Bozsony). 3. "Hidrologiai  
kozlony" szerkeszto bizottsagi tagja (for Vagas, Oroszlany,  
Schulhof, Szigyarto and Hollo).

KESSLER, Hubert, dr.

Following the path of a spring. Elet tud 16 no.25:789-790  
18 Je '61.

KESSLER, Hubert, dr.

What is the composition of the Bukk hot water and what diseases can  
be cured by it? Elet tud 16 no.32:994 6 Ag '61.

1. Vizgazdalkodasi Kutatointezet tudomanyos fómunkatarsa.

KESSLER, Hubert, dr.

Rumanian caves. Elet tud 17 no. 15:462-463 Ap'62.

LECZFALVY, Sandor; KESSLER, Hubert, dr.

Hot springs, some questions of the heat supply of artificial hot  
spring explorations. Hidrologiai kozlony 44 no.12:546-551 D '64.

1. Water Resources Planning Office, Budapest (for Leczfalvy).

STAROSTIN, V.A.; KESSLER, I.N.; POL', E.R.

Tool for cleaning rolled roofing materials. Suggested by  
V.A. Starostin, I.N. Kessler, E.R. Pol'. Rats.i izobr.predl.  
v stroy. no.11:104-106 '59. (MIRA 13:3)

1. Rabotniki normativno-issledovatel'skoy stantsii pri  
treste Basstroy Sverdlovskogo sovnarkhoza.  
(Roofing)

KESSLER, I. N., inzh.; ROVYN, A. I., inzh.

Machine for making glazier's paste and putty. Suggested by  
I.N.Kessler, A.I.Rovein. Rats.i izobr.predl.v stroi. no.12:  
42-44 '59. (MIRA 13:5)

1. Stroitel'no-montazhnyy trest Bazstroy Sverdlovskogo  
sovnarkhoza, Krasnotur'insk, Sverdlovskoy oblasti.  
(Putty)

MASALKIN, N.K. (Perm'); KHOROSHAVIN, B.P. (Chelyabinsk); KESSLER, L.V.  
(Kurgan); ROSHCHEVSKIY, M.P., kand. biolog. nauk, red.; BERDI-  
CHEVSKIY, I.M., tekhn. red.

[Farm management system in Ural Mountain region] Sistema vedeniya  
sel'skogo khoziaistva zony Urala. Sverdlovsk, 1960. 678 p.  
(MIRA 14:10)

l. Sverdlovsk. Ural'skiy nauchno-issledovatel'skiy institut sel'-  
skogo khozyaystva.  
(Ural Mountain region—Farm management)

KESSLER, M.

"First All-Union Congress of Fuel Engineers and its Significance in  
Planning Research on Coal", P. 258, (PALIVA, Vol. 34, No. 9, Sept.  
1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,  
Dec. 1954, Uncol.

KESSLER M.F.

*fuel*

The oxidation of black coal, M. P. Kessler (Gustav výzkum a vývojové práce, Prague). UAM 3, 342-7 (1935).— The process of black-coal oxidation was studied by thermogravimetric analysis. The obtained oxidation curves, depending on temp., are characteristic in shape and their utilization makes it possible to det. exactly the ignition point and to distinguish the individual types of coal. The worked-out method is not only a criterion of the basic properties of the coal substance but represents a way for solving the question of the spontaneous ignition of coal by means of altering the ignition point of the same specimen under different conditions of oxidation. 1. Hygr.

KESSLER, M.; DOCKALOVA, L.

Study of the determination of manganese in coal ashes. p. 178.  
International Congress on Gasification of Fuel in Liege, 1954. p.181.  
PALIVA. (Ministerstvo paliv a energetiky) Praha. Vol. 35, no. 6,  
June 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,  
Vol. 4, No. 12, December 1958.

KESSLER, M.; DOCKALOVA, L.

Determining sodium and potassium in coal ashes. p. 212.  
International Congress on Gasification of Fuel in Liege in 1954. p. 212.  
(PALIVA, vol. 35, no. 7, -ly 1955, Praha)

SO: Monthly List of East European Accession,(EEAL), LC, Vol. 4,  
No. 11, Nov. 1955, Uncl.

KESSELER M.

✓ Researches on the Thermal Decomposition of Coal. M. F.  
Korobey. *Polymer*, 1955, 35, 16, 302-304. "In general, the  
decomposition of coal as a function of temperature can be divided  
into two stages. From the first stage, which occurs at low tempera-  
tures, there is a loss of water and a slight decrease in weight. In  
the second stage, which occurs at higher temperatures, there is a  
sharp increase in weight loss and a sharp decrease in weight." L

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Kessler, M. F.

✓ 958. STUDY OF THE STRUCTURE OF THE PETROGRAPHIC COMPONENTS (OF COAL)  
BY MEANS OF X-RAYS. Kessler, M.F. and Vacekova, M. (Uhli (Coal), Prague),  
Jan. 1955, 25-30). The authors have studied the fine structure of the coal  
substance by means of X-rays. They give the quantitative evaluation of the  
radiographs, and conclude that the grid interval "d" is the basic criterion  
of the structural changes; they analyze its dependence on the carbonification.  
B.C.B. *grf* *2*

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KFSSLER, H.

"Determination of variations in the lattice parameter of graphite samples.  
In German."

p.1097 (Sbornik Chekhoslovatskikh Khimicheskikh Rabot, Vol. 22, no. 4, Aug. 1957  
Praha, Czechoslovakia)

Monthly Index of East European Accession (MIAI) LC, Vol. 7, No. 8, August 1958

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KOGLER, M.; VECERIKOVA, F.

Use of monochromator for study of changes of fine structure of coal and coke.  
T. 90

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost  
pro vyuuziti pri Ceskoslov nske akademie ved) Praha, Czechoslovakia.  
V l. 39, no. 3, Mar 1959

Monthly List of East European Accessions (EEAI), LV, Vol. 8, No. 7, July 1959  
Uncl.

KESSLER, M.  
VECERIKOVA, V.

"Contribution to the methods of the X-ray analysis of metallurgic coke."

HUTNICKE LISTY. Brno, Czechoslovakia, Vol. 14, March 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, September 1959.  
Unclassified.

HOLUBAR, Vl., C.Sc.; KESSLER, M.F., inz., C.Sc.

Determining the porosity and density of coke. Hut listy 18  
no. 280-84 F '63.

1. Hornicky ustav, Ceskoslovenska akademie ved, Praha.

KESSLER, M.F., inz., C.Sc.

Raw material base, development and outlook of metallurgical coke production in the world. Hut listy 18 no.1:6-14 Ja '63.

1. Hornicky ustav, Ceskoslovenska akademie ved, Praha.

VECERIKOVA, V.; KESSLER, M.F.

Determining the fine structure of coke by chrome anode radiation  
and monochromated radiation. Paliva 43 no.1:13-16 Ja '62.

1. Hornicky ustav, Ceskoslovenska akademie ved.

KESSLER, Miroslav F., inz., CSc.

World coal situation and the forecast of future production.  
Uhli 5 no.9:325-328 S'63.

1. Hornicky ustav, Ceskoslovenska akademie ved, Praha.

KESSLER, M. F., inz., CSc.

Development of coal consumption up to 1975 in the industrial countries of the world. Uhli 5 no. 12: 421-424 D '63.

1. Hornicky ustav, Ceskoslovenska akademie ved, Praha.

KESSLER, M.F., inz., CSc.; HOLUBAR, Vl., CSc.

On Czechoslovak Standard 44 1345: Micropetrographic Coal  
Analysis. Paliva 43 no.8:261-262 Ag'63

1. Hornicky ustav, Ceskoslovenska akademie ved.

KESSLER, M. F.

Scientific seminar on the properties of metallurgical cokes  
in Berlin. Vestnik CSAV 73 no. 1: 170-171 '64.

VECERIKOVA, V.; KESSLER, M.F.

Infrared spectra of the black coal from Ostrava-Karvina Basin.  
Vysl ban vyzk 3:227-244 '64.

1. Institute of Mining, Czechoslovak Academy of Sciences,  
Prague.

L 3114-66

ACCESSION NR: AP5026879

CZ/0034/65/000/006/0383/0388

AUTHOR: Kessler, Miroslav (Engineer, Candidate of sciences)

TITLE: Properties of carbonaceous materials in calcination with particular respect to pitch coke

SOURCE: Hutnicke listy, no. 6, 1965, 383-388

TOPIC TAGS: carbon compound, calcination, coke, pitch material

ABSTRACT: Carbonaceous materials resulting in calcination of pitch tar can be classified with respect to their ash content as follows: petroleum coke, pitch semi-coke, and pitch coke. With the increasing ash content in the sequence quality decreases. The quality of the calcined pitch coke is a function of the hard pitch carbonization. With increasing pitch coke carbonization, the variation in its properties in subsequent calcinations is reduced; this is contrary to what is quite frequently believed. Orig. art. has: 9 graphs, 4 tables.

ASSOCIATION: Hornicky ustav CSAV (Mining Institute CSAV)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, FP

NR REF SOV: 002

OTHER: 010

JPRS

Card 1/1

L 34426-66

ACC APPROVED FOR RELEASE: 09/17/2001 SOURCE CODE: CZ/0034/65/000/011/0766/0769 CIA-RDP86-00513R000721610014-9"

AUTHOR: Kessler, M. F. (Engineer; Candidate of sciences); Dockalova, L. --  
Dochkalova, L.

ORG: Mining Institute, CSAV (Hornicky ustav CSAV)

TITLE: Critical notes on the CO sub 2 method of determining coke reactivity [Paper presented at the 35th International Congress of the Chemical Industry held in Warsaw in September 1964]

SOURCE: Hutnicke listy, no. 11, 1965, 766-769

TOPIC TAGS: coke, carbon dioxide

ABSTRACT: The article discusses changes of the coke mass which take place during the degassing of coke up to 1000°C, as a result of which the coke reactivity determined by the CO sub 2 method is not unequivocal. A method should be used in which the composition and properties of the coke do not change before the measurements. Orig. art. has: 1 figure and 3 tables. [Based on authors' Eng. abstract] [JPRS: 33,732]

SUB CODE: 21 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 005

Card 1/1 908

UDC: 669.162.1

0976 1742

KESSLER, V.Yu.

Retroperitoneal novocaine block in the differential diagnosis of  
injury in blunt wounds of the abdomen. Vest. khir. 84 no.5:39-42  
My '60. (MIRA 13:12)

(ABDOMEN—WOUNDS AND INJURIES)  
(LOCAL ANESTHESIA)

KESSLER, V.Yu., kand.med.nauk (Leningrad, per. Grivtsova, d.5., kv.21)

Significance of vagosympathetic novocaine block for the diagnosis  
of "acute abdomen." Vest.khir. no.9:105-108 '61.

(MIRA 15:3)

1. Iz 2-y kafedry khirurgii (zav. - prof. G.A. Gomzyakov)  
Leningradskogo instituta usovershenstvovaniya vrachey im.  
S.M. Kirova na baze bol'nitsy im. Lenina.  
(ABDOMEN--DISEASES) (NOVOCAINE)  
(NERVOUS SYSTEM SYMPATETIC)

Kessler, Yu. M.

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical Analysis. Phase Transitions. B-8

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26089

Author : Yu.M. Kessler

Title : Rapid Non-Ionic Reactions of Double Decomposition in Non-Aqueous Medium

Orig Pub : Izv. AN SSSR, Otd. khim. n., 1956, No 5, 513-515

Abstract : If solid salt  $Hg(Hal)_2$  (Hal being Cl or Br) is added to the solution of  $SnI_4$  in benzene or nitrobenzene, an instantaneous interchange of halogens takes place, resulting in the formation of  $HgI_2$  in accordance with the surmised equation  $SnI_4 + Hg(Hal)_2 \rightarrow Sn(Hal)_2I_2 + HgI_2$ . Basing on the study of electrical conductivity of mixtures of  $Hg(Hal)_2$ -solvent,  $SnI_4$ -solvent,  $Hg(Hal)_2$ - $SnI_4$ -solvent (Hal being Cl, Br, or I; solvent being  $C_6H_6$  or  $C_6H_5NO_2$ ) and the kinetics of the evaporation of the solvent from the mixtures  $Hg(Hal)_2-C_6H_6$  and  $SnI_4-C_6H_6$ , it is asserted that this interchange is not connected with the presence of ions or stable complexes in solutions under study and does not depend on the difference in properties of the solvents in question.

Card : 1/1

Inat. Gen + Inorganic Chem. im N. S. Kurnakov

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9

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"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9"

KESSLER, Yu.M.; GORBANEV, A.I.

Heat of dilution of the solutions of alkali metal chlorides in  
concentrated hydrogen peroxide. Report No.1. Izv.vost.fil.AM  
SSSR no.4/5:75-89 '57. (MLRA 10:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova.  
(Heat of solution) (Alkalit metal chlorides) (Hydrogen peroxide)  
(Electrolysis)

KESSLER Yu. M.  
KESSLER, Yu.M.; GORPAN V. A.I.

Heat of dilution of the solutions of alkali metal chlorides in concentrated hydrogen peroxide. Report No.2. Izv.vost.fil.AN SSSR no.6:50-61 '52 (MLRA 10:9)

**APPROVED FOR RELEASE: 09/17/2001**

CIA-RDP86-00513R000721610014-9"

<sup>e150</sup>  
Kessler, Yu. M.

AUTHORS: Kessler, Yu. M., Gorbanov, A. I.

20-3-22/52

TITLE:

Deviations of the Thermodynamical Properties of the  
Solutions of Strong Electrolytes from the Limit Law in the  
Debye Range of Concentrations (Ob otkloneniyakh  
termodynamicheskikh svoystv rastvorov sil'nykh elektrolitov  
ot predel'nogo zakona v Debayevskoy oblasti kontsentratsiy).

PERIODICAL: Doklady AN SSSR , 1957, Vol. 117, Nr 3, pp. 437-440 (USSR)

ABSTRACT:

First, some previous works dealing with the same subject are discussed. The authors determined the integral solution heats  $\Delta H_m$  of NaCl, KCl, RbCl and CsCl in  $H_2O_2$  at  $0^\circ$  by means of an ice calorimeter. The difference between the signs of the experimental and the theoretical values  $\Delta W$  and  $\Delta W_D$  begins to manifest itself in the case of  $H_2O_2$  at much lower concentrations than in the case of  $H_2O$ . Taking account of the dependence  $D = f(c)$  (where  $c$  denotes concentration in mol/l), of the repeated collisions, of the eigenvolume of the ions, of the modification of the distance  $a$  of the extreme approximation of ions in the case of a change of temperature, etc. cannot explain the occurrence of the positive solution heats in the Debye (Debeye) range

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Deviations of the Thermodynamical Properties of the  
Solutions of Strong Electrolytes from the Limit Law in the  
Debye Range of Concentrations

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of concentrations. The only possible causes are the production of ion pairs and the dependence of the structure of the solution on concentration. The solution energy  $\Delta G_0$  connected with the production of ion pairs can be determined in the most general form on the basis of the theory of the "specific interaction" of ions developed by J. N. Brönsted (Ref. 7), and E. A. Guggenheim (Ref. 8). The authors consider the specific interaction of ions to be the result of their approximation to the distance  $r_{ij} \leq a_i + a_j$ , where  $a_i$  and  $a_j$  are the radii of the solvation domains of the ions. The course taken by the computation according to the two above theories is described in short. The satisfactory agreement between theory and experiment extends as far as  $c = 0.025$ , i. e. up to the boundary of the Debye range. In order to carry out such a comparison, corresponding computations were carried out on the basis of published data for NaCl in ethylene glycol NaC<sub>2</sub>H<sub>5</sub>OH, NaBr and NaJ in formaldehyde and KCl in H<sub>2</sub>O. In aqueous solutions agreement between theoretical and experimental values extends from  $\Delta W$  to the highest

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Deviations of the Thermodynamical Properties of the  
Solutions of Strong Electrolytes from the Limit Law in the  
Debye Range of Concentrations

concentration  $c > 0,1$ , but in the case of solutions in  $H_2O_2$  this agreement extends along the smallest range. With a given concentration the greatest difference between theoretical and experimental values of  $\Delta W$  is found in the case of solutions in  $H_2O_2$ . The smallest difference is found in  $H_2O$ . Ethylene glycol and formic amid take up a middle position. The modification of the structure of aqueous solutions with a change of concentration is probably small in spherical ions at least up to  $c = 0.1$ . There are 1 figure, 1 table, and 24 references, 9 of which are Slavic.

ASSOCIATION: Institute for General and Inorganic Chemistry imeni N. S. Kurnakov AN USSR (Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR).

PRESENTED: April 27, 1957, by I. I. Chernyayev, Academician

SUBMITTED: April 23, 1957

AVAILABLE: Library of Congress

Card 3/3

KESSELMEYER, Yu. M., Cand Chem Sci —(diss) " Study of temperatures of formation of solutions of chlorides of alkaline metals in highly concentrated hydrogen peroxide at 0°." Mos, 1958, 15 pp with graphs (Acad Sci USSR, Inst of General and Inorganic Chemistry im N.S.Kurnakov), 150 copies (KL,24-58, 116)

## AUTHORS:

Kessler, Yu. M., Gorbanev, A. I.

SOV/62-58-8-17/22

## TITLE:

Notes on the Glauberman and Yukhnovskiy Equation (Zamechaniye k uravneniyu Glaubermana i Yukhnovskogo)

## PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1958, Nr 8, pp. 1010-1011: (USSR)

## ABSTRACT:

In this short report the correction of an inaccuracy in the Glauberman and Yukhnovskiy equation for the electrostatic part of the free energy of the electrolyte solution is dealt with. This equation reads as follows:

$$F_e = -(T / 2D_0) \sum N_i z_i^2 \epsilon^2 \quad (B_1 / 2\beta^3 \chi^2 T),$$

where  $B_1$  is equal to

$$\frac{1}{5} (x_1 - 1)^5 - \frac{2}{3} (x_1 - 1)^3 + (x_1 - 1) + \frac{1}{20} (x_1 - 2)^5 + \frac{1}{4} (x_1 - 2)^4 x_1;$$

$$x_1 = \sqrt{1 + 2\beta\chi} + 1;$$

$\beta$  is the parameter of the theory denoting the mean diameter of the ions. Otherwise the notation is as usual. In employing this equation for determining the heat of dilution  $\Delta W$  it turned out

Card 1/2

Notes on the Glauberman and Yukhnovskiy Equation

SOV/62-58-8-17/22

that  $\Delta W(1)$  is equal to  $-\infty$  at  $\chi = 0$ . The authors conclude that the equation  $F_e = (T/2D_0) \cdot \sum N_i z_i^2 \epsilon^2 (B/2\beta^3 AT)$  leads to the uncertain form  $\Delta W(8) \sim 0/0$  (at  $\chi = 0$ ). This indeterminacy was investigated by the authors. It was found that  $\lim \Delta W(\chi) = 0$  at  $\chi \rightarrow 0$ . Therefore the equation given by the authors may be assumed to be correct. The equation for  $\Delta W(8)$  sufficiently describes the experimental data for aqueous 1 - 1 electrolyte solutions at 25°C and  $\beta \sim 4A$  as well as  $\partial\beta/\partial T \sim 5 \cdot 10^{-4} A/\text{degree}$ . There is 1 reference, 1 of which is Soviet.

## ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, AS USSR)

SUBMITTED: March 7, 1958

Card 2/2

Electrical Conductivity of the System Tin Tetrabromide -  
Nitrobenzene SOV/62-52-7-29/30

molten tin tetrabromide do not conduct the current at all. The conductivity present in the mixture is originated by a chemical interaction of the two components. The viscosity of the solution does not influence the isotherm of  $K$ . Thus, it may be influenced solely by the dependence of the dissociation degree of the forming compound upon  $\delta$  of the medium and upon the concentration of the solution in relation to the compound mentioned. Hence, the isotherm of  $K$  is to be ascribed to the type of irrational isotherms. There is 1 figure and 4 references, 2 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakovskogo Akademii nauk SSSR (Institute of General and Inorganic Chemistry named N. S. Kurnakov of the Academy of Sciences, USSR)  
Khimiko-tehnologicheskiy institut im. I. I. Mendeleyeva (Institute of Chemical Technology named I. I. Mendeleyev)

SUBMITTED: December 29, 1958

Card 2/2

5.4600

77064  
SOV/62-59-12-8/43

AUTHORS: Kessler, Yu. M., Gorbanev, A. I.

TITLE: A Comment on the Theory of Solutions of Strong Electrolytes

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2116-2118 (USSR)

ABSTRACT: The authors list all the corrections of the Debye-Hückel theory made by various authors (with a list of literature references). The fact that parameters  $a$  (average effective ionic diameter) and  $h$  (hydration number) vary in equations obtained by different authors, and that equations for  $\Delta W$  (heat of dilution) and  $L_2$  (relative partial molar heat capacity), derived by Wicke and Eigen (E. Wicke, M. Eigen, Naturwissenschaften, 38, 453 (1951); 39, 545 (1952); Z. Electrochem., 56, 551 (1952); and Robinson and Stokes (R. A. Robinson, R. Stokes, Ann. N. Y. Acad. Sci., 51, 593 (1949)) on the basis of the Debye-Hückel theory, do not describe

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A Comment on the Theory of Solutions of  
Strong Electrolytes

77064

SOV/62-59-12-8/43

experimental conditions accurately (unless a temperature dependence of  $a$  and  $h$  is assumed), suggest that additional corrections are needed. The assumption

that  $\frac{da}{dT} > 0$  and  $\frac{dh}{dT} > 0$ , that would adjust the theoretical values of  $\Delta W$  and  $L_2$ , contradicts experimental evidence. The authors conclude that in order to explain experimental deviations of the data on  $\Delta W$  and  $L_2$  from the Debye-Hückel theory, it is necessary to consider the existence of ion-pairs and the changes in the structure of solutions affected by increasing concentration. There is 1 table; and 39 references, 5 Soviet, 12 German, 2 Indian, 2 Japanese, 2 Dutch, 1 French, 1 Canadian, 2 U.K., 12 U.S. The 5 most recent U.K. and U.S. references are: D. G. Miller, J. Phys. Chem., 60, 1296 (1956); E. Glueckauf, Trans. Faraday Soc., 51, 1235 (1955); J. B. Hasted, S. H. M. El-Sabeh, Trans. Faraday Soc., 49, 1003 (1953); R. A. Robinson, R. Stokes, Ann. N. Y. Acad. Sci., 51, 593 (1949); J. B. Hasted, D. M. Ritson, C. H. Collie, J. Chem.

Card 2/3

**APPROVED FOR RELEASE: 09/17/2001**

**CIA-RDP86-00513R000721610014-9"**

A Comment on the Theory of Solutions of  
Strong Electrolytes

77064

SOV/62-59-12-8/43

Phys., 16, 1 (1948).

ASSOCIATION: N. S. Kurnakov Institute of General and Inorganic Chemistry of the Academy of Sciences, USSR (Institut obshchey i neorganicheskoy khimii imeni N. S. Kurnakova Akademii nauk SSSR)

SUBMITTED: April 7, 1958

Card 3/3

- 100-105 6.30/61

5 (4)

AUTHORS: Gorbanev, A. I., Kessler, Yu. M., Sov/20-125-6-30/51  
Povarov, Yu. M., Sevost'yanov, E. S.

TITLE: Some Regularities in the Properties of the Solutions of Strong  
Electrolytes (Nekotoryye zakonomernosti svoystv rastvorov  
sil'nykh elektrolitov)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6,  
pp 1281-1284 (USSR)

ABSTRACT: The authors state that it is possible to explain the deviation of the properties of electrolytes from the Debye-Hückel-law only by taking the specific ion interaction into account. On the basis of assumptions made in an earlier paper (Ref 4) the contribution  $f_c$  of ion interaction is given as amounting to  $\ln f_c = \frac{4}{3}\pi a^3 Bc - B\beta_1 c$  (1).  $[a = r_+ + r_-$ , the sum of the crystallographic radii of the cation and anion,  $B = 6.024 \cdot 10^{20}$ ,  $\beta_1$  = coefficient taking the solvation energy of the ion pair into account (Formula 2),  $c$  = concentration]. The deviation  $\lg f_{exp} = \lg f_D - \lg f_c$  ( $f_{exp}$  = experimentally

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Some Regularities in the Properties of the  
Solutions of Strong Electrolytes

SOV/20-125-6-30/61

$B\beta_1c$  and  $b$  (dipole effect) as well as  $g$  (charge interaction) resulted in no connection in the case of water. On the basis of data (Ref 7) for formamide the values of  $B\beta_1c$  in a formamide solution were calculated and represented as  $f(a)$  and  $f(b)$  (Fig 3). The authors, however, emphasize that this connection, which now becomes apparent, may be due to a misapprehension. It happens that the salts for which data in formamide are available, show a continuous connection between  $a$ ,  $b$  and  $g$  (Fig 4). Thus, the real argument of the function  $B\beta_1c$  can therefore only be one of the variables  $a$ ,  $b$ ,  $g$ . In order to clear this up, it is necessary to determine the values for salts which do not fit in to the curve of figure 4. There is no connection between  $a$ ,  $b$  and  $g$  and the deviation from the law of dilution heat. The dilution heat is influenced in the same manner by the various effects of ion interaction. In this case the entropy terms of the equation must not be omitted. There are 4 figures and 7 references, 4 of which are Soviet.

Card 3/4

Some Regularities in the Properties of the  
Solutions of Strong Electrolytes

SOV/20-125-6-30/61

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute for  
Electrochemistry of the Academy of Sciences, USSR)

PRESENTED: January 14, 1959, by A. N. Frumkin, Academician

SUBMITTED: December 26, 1958

Card 4/4

5.4130

78085  
SCV 62-60-1-31/37

AUTHORS: Gorbaney, A. I., Kessler, Yu. M.

TITLE: Brief Communications. Concerning Calculation of Ions  
Effect on the Structure of Water

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh  
nauk, 1960, Nr 1, pp 140-141 (USSR)

ABSTRACT: It was shown by a series of mathematical transformations  
that the method for calculating the ion effect on the  
structure of water, proposed by I. G. Mikhaylov and  
Yu. P. Syrnikov (Vestn. Leningr. univ., Nr 10, Seriya  
fiziki i khimii, vyp. 2, 5, 1958) is quite reasonable  
and interesting from the qualitative side, but quanti-  
tatively it is expressed incorrectly. There is 1  
Soviet reference.

ASSOCIATION: Institute of Electrochemistry, Academy of Sciences USSR

SUBMITTED: Institut elektro-khimii Akademii nauk SSSR  
June 23, 1959

Card 1/1

SINYAKOV, Yu.I.; GORBANEV, A.I.; POVAROV, Yu.M.; KESSLER, Yu.M.

Density of N-methylformamide. Izv. AN SSSR. Otd.khim.nauk  
no.8:1514-1515 Ag '61. (MIRA 14:8)

1. Institut elektrokhimii AN SSSR.  
(Formamide)

34824

S/020/62/142/005/015/022  
B110/B101

5.2620

AUTHORS: Alpatova, N. M., Gorbanev, A. I., Kessler, Yu. M., and Lozhkina, L. G.

TITLE: Physicochemical study of complexes between alkyl (aryl) chlorosilanes and halides of tetrasubstituted ammonium

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no 5, 1962, 1073-1076

TEXT: The authors studied the complex formation between  $\text{CH}_3\text{SiCl}_3$  (I),  $(\text{CH}_3)_3\text{SiCl}$  (II),  $\text{C}_6\text{H}_5\text{SiCl}_3$  (III),  $\text{SiCl}_4$  (IV) with NaCl (a), NaF (b), KF (c), CsCl (d), CsF (e),  $\text{NH}_4\text{Cl}$  (f),  $(\text{CH}_3)_4\text{NCl}$  (g),  $(\text{C}_2\text{H}_5)_4\text{NBr}$  (h),  $(\text{C}_4\text{H}_9)_4\text{NCl}$  (i),  $(\text{C}_4\text{H}_9)_4\text{NBr}$  (k),  $(\text{C}_4\text{H}_9)_4\text{NI}$  (l), ethyl pyridine bromide (m) ✓ by chemical analysis (for hydrolyzable Cl, and argentometrically), conductivity measurement, and visual observation of the dissolution. The synthesis was conducted in Ar atmosphere at 35 - 40°C during 3 - 12 hr. depending on the dispersity of the salt. I, II, III, IV reacted with e, h, i, k, l. With halides of tetrasubstituted ammonium salts, complexes

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S/020/62/142/005/015/022

Physicochemical study of complexes ...

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are formed if the alkyl radical is long enough. Their ability to form complexes increases with decreasing anion radius. In I and II, which behave similarly, i dissolves with formation of two layers. The one has an organosilicon compound: salt ratio of 3:1 (viscous, at room temperature supercooled, colorless, or yellow liquids), the other a ratio of ~40:1 (movable, organic compound with some dissolved salt). Dissolution of k is analogous. l yielded no complexes, only slight yellow coloring, and a slight increase in conductivity of the organosilicon compound. IV behaves like I and II but forms poorly fusible complexes. i and k dissolve in III without layer formation to give a yellow solution with high temperature coefficient of solubility. The solubility of i in III is much higher than in I and II, the conductivity  $\kappa = 2.7 \cdot 10^{-4}$  for III:i = 5.4 : 1 (unsaturated solution);  $\kappa = 7.4 \cdot 10^{-5}$  for III:k = 45 : 1 (saturated solution). In the system II-i the layer composition does practically not depend on time and temperature. This is confirmed by equal conductivities of the isolated complex and the complex together with the second layer. The behavior of  $[(CH_3)_3SiCl]_3(C_4H_9)_4NCl$  to solvents proves a stronger bond of the one molecule than that of the other two. Si was not separated  
Card 2/4

Physicochemical study of complexes . . .

S/020/62/142/005/015/022  
B110/B101

off during electrolysis of the systems I-i; II-i; I-ii; I-iv, and the solutions of i and k in i at  $D_c \sim 0.25 \sim 10 \text{ a/dm}^2$ . Low-resistance, p-type silicon was dissolved in the systems I-i; II-i, and the solution of i in III. In the  $[(\text{CH}_3)_3\text{SiCl}]_3(\text{C}_4\text{H}_9)_4\text{NCl}$  complex and its benzene solutions (1 mole of complex : 10 moles of benzene) at  $D_a = 4 \text{ a/dm}^2$ , silicon dissolves with almost 100 % current yield (referred to  $\text{Si}^{4+}$ ). Complex formation, layer formation, extraction of two  $(\text{CH}_3)_3\text{SiCl}$  molecules by aliphatic solvents, the dependence of the complex formation on anion radii and cation dimensions, the anodic behavior during electrolysis are similar to the behavior of analogous Al compounds, the cathodic behavior during electrolysis is different. There are 3 tables and 10 references: 3 Soviet and 7 non-Soviet.

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of Electrochemistry of the Academy of Sciences USSR)

PRESENTED: October 7, 1961, by A. N. Frumkin, Academician  
Card 3/4

Physicochemical study of complexes ...

S/020/62/142/005/015/022  
B110/B101

SUBMITTED: October 2, 1961

Card 4/4

X

GORBANEV, A.I.; KESSLER, Yu.M.; KRYLOV, V.V.

Effect of the structure of strong electrolyte solutions on thermo-dynamic properties. Zhur.strukt.khim. 2 no.3:260-267 My-Je '61.  
(MIRA 15:1)

1. Institut elektrokhimii AN SSSR.  
(Electrolyte solutions) (Chemistry, Physical and theoretical)

POVAROV, Yu.M.; CORBANEV, A.I.; KESSLER, Yu.M.; SAPONOVA, I.V.

Activity coefficients of cesium chloride in N-methylformamide.  
Dokl. AN SSSR 142 no.5:1128-1129 F. '62. (MIRA 15:2)

1. Institut elektrokhimii AN SSSR. Predstavieno akademikom  
A.N.Frumkinym.

(Cesium chloride)  
(Formamide)  
(Activity coefficients)

KESSLER, Yu. M.; LIPIKHIN, N. P.; KUCHINSKIY, Ye. M.

Solubility in the system water - sulfuric acid - p-chloro-  
benzenesulfonic acid. Zhur. ob. khim. 32 no.12:3871-3876  
(MIRA 16:1)  
D '62.

(Benzenesulfonic acid) (Sulfuric acid)  
(Solubility)

KESSLER, Yu.M.; POVAROV, Yu.M.; GORBANEV, A.I.

Problem of the salting-out effect. Zhur.strukt.khim. 4 no.1:100-  
102 Ja-F '63. (MIRA 16:2)

1. Institut elektrokhimii AN SSSR.  
(Salting-out)

SEVAST'YANOV, E.S.; GORBANEV, A.I.; KESSLER, Yu.M. (Moscow)

Apparatus for measuring electric conductivity. Zhur. fiz.  
khim. 36 no. 3:644-645 Mr '62. (MIRA 17:8)

1. Institut elektrokhimii AN SSSR.

GOL'DSHTEYN, I.P.; KESSLER, Yu.M.; POVAROV, Yu.M.; GORBANEV, A.I.

Dipole moment of N-methylformamide. Zhur.strukt.khim. 4 no.3:  
445-446 My-Je '63. (MIRA 16:6)

1. Institut elektrokhimii AN SSSR.  
(Formamide—Dipole moments)

GOL'DSHTEYN, I.P.; ALPATOV, N.M.; KESSLER, Yu.M.; GUR'YANOVA, Ye.N.;  
GORBANEV, A.I.

Interaction of hydrogen chloride, tetra-n-butyl ammonium chloride  
with trimethylchlorosilane in benzene solutions. Izv. AN SSSR.  
Ser.khim. no.9:1683-1685 S '63. (MIRA 16:9)

1. Institut elektrokhimii AN SSSR.  
(Ammonium compounds) (Silane) (Hydrochloric acid)

POVAROV, Yu.M.; KAZARINOV, V.Ye.; KESSLER, Yu.M.; GORBANEV, A.I.

Solubility of AgCl in solutions of NaCl and CsCl in  
N-methylformamide and in formamide. Zhur.neorg.khim. 9 no.4:  
1008-1010 Ap '64. (MIRA 17:4)

1. Institut elektrokhimii AN SSSR.

POVAROV, Yu.M.; KESSLER, Yu.M.; GORBANEV, A.I.; SAFONOV, I.V.

Thermodynamic properties of solutions of strong electrolytes in  
solvents having high dielectric constants. Dokl. AN SSSR 155  
no.6:1411-1414 Ap '64. (MIRA 17:4)

1. Institut elektrokhimii AN SSSR. Predstavлено академиком  
A.N.Frumkinym.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9

KESSLER, Yu.M.; ALPATOVA, N.M.; OGIPOV, O.R.

Electrochemical and physicochemical properties of aluminum compounds  
in nonaqueous solutions. Usp.khim. 33 no.3:261-295 Mr '64.  
(MIRA 17:4)

1. Institut elektrokhimii AN SSSR.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721610014-9"

ALPATOV, N.M.; KESSLER, Yu.M.

Complex compounds of silicon. Zhur.strukt.khim. 5 no. 2:  
332-353 Mr-Ap '64. (MIRA 17:6)

1, Institut elektrokhimii AN SSSR.

ALPATOVA, N.M.; KESSLER, Yu.M.; CORBANEV, A.I.

Interaction of hydrogen chloride with halides of quaternary  
ammonium salts. Izv. AN SSSR. Ser. khim. no.8:1369-1372 Ag '64.  
(MIRA 17:9)

1. Institut elektrokhimii AN SSSR.

POVAROV, Yu.M.; KESSLER, Yu.M.; GORBANEV, A.I.

Thermodynamic properties of strong electrolyte solutions in  
solvents with dielectric constants. Izv. AN SSSR. Ser. khim.  
no.10:1895-1896 O '64. (MIRA 17:12)

1. Institut elektrokhimii AN SSSR.

FADEYEVA, L.Ye.; KESSLER, Yu.M.; POVAROV, Yu.M.

Activity coefficients of sodium and cesium chlorides in a  
mixture of formamide with acetamide at 25° C. Elektrokhimiia  
1 no.7:822-827 Jl '65. (MIRA 18:10)

1. Institut elektrokhimii AN SSSR.

ALPATOVA, N.M.; KESSLER, Yu.M.; GORBANEV, A.I.

Anodic behavior of silicon in some nonaqueous solutions.  
Elektrokhimiia 1 no.7:844-850 Jl '65. (MIRA 18:10)

1. Institut elektrokhimii AN SSSR.

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